

PRIMERGY TX300 S5

System configurator and order-information guide

October 2009

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Change report



PRIMERGY Server

Instructions

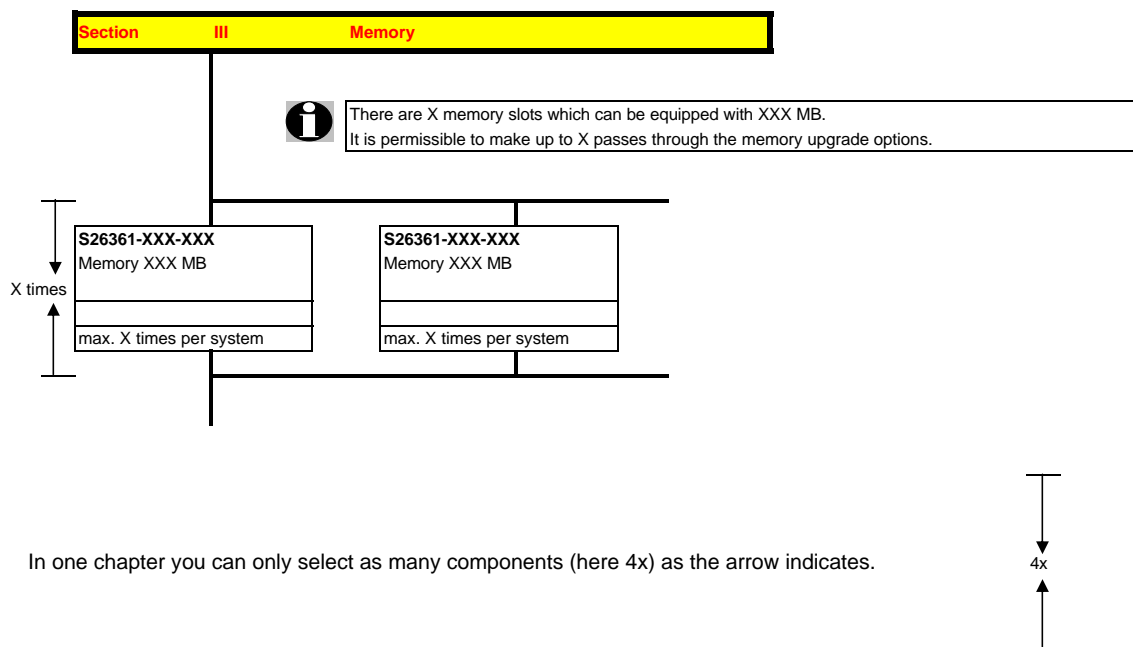
This document contains basic product and configuration information that will enable you to configure your system via PC-/SystemArchitect.

Only these tools will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/SystemArchitect.

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.



In one chapter you can only select as many components (here 4x) as the arrow indicates.

Please note that there are information symbols which indicate necessary information.



For further information see:

http://ts.fujitsu.com/products/standard_servers/index.html (internet)

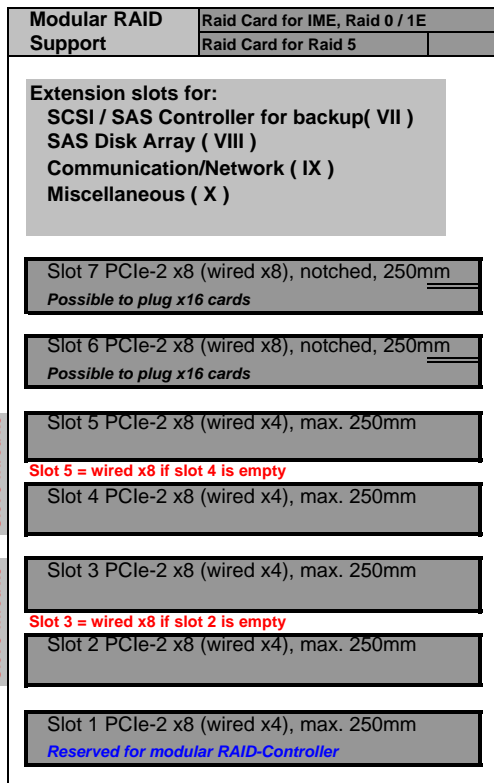
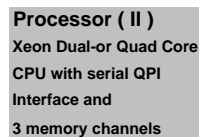
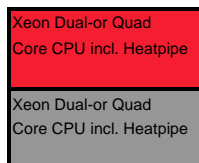
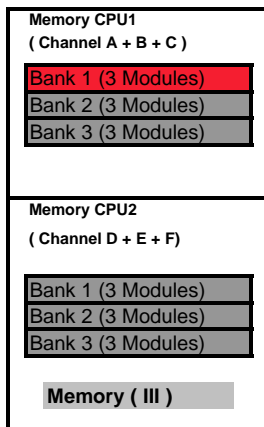
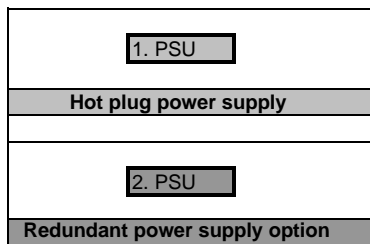
https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx (extranet)

Prices and availability see price list and PC-/SystemArchitect.
Subject to change and errors excepted.

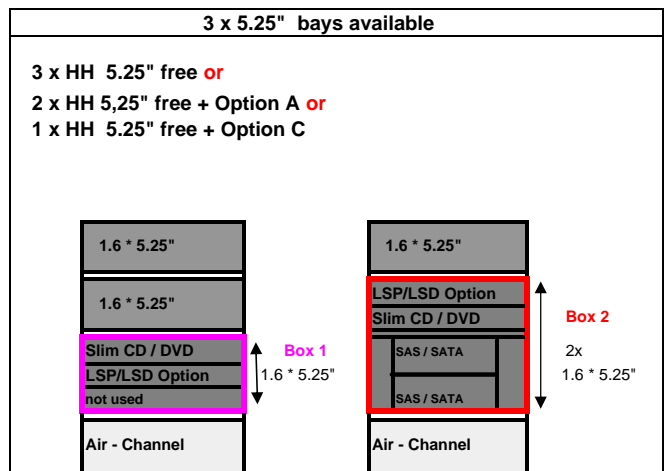
Configuration diagram PRIMERGY TX300 S5

System unit (I)

SIDE VIEW



FRONT VIEW



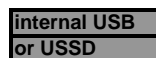
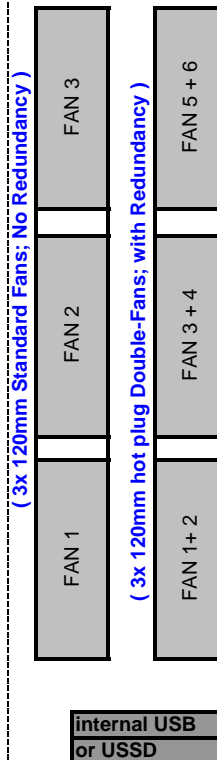
Accessible drives (V)

Mounting Kit DVD(sl) + LSP/LSD: (Option A)

- support for SL (0.5") DVD Drive + LSP /LPD
(Local Service Panel / Local Service Display)
- occupies one 5.25" bay

MtK DVD(sl)+LSP/LSD+SAS LFF HDD: (Option C)

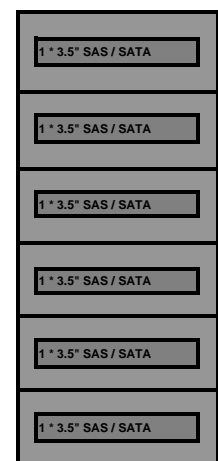
- support for
- + 2x 3.5" SAS HDD hot plug
- + SL (0.5") DVD Drive
- + LSD / LED Display = Local Service or LED Display



Hard disk drives (VI)

3.5" SAS / SATA

- 1x 6-port
SAS backplane

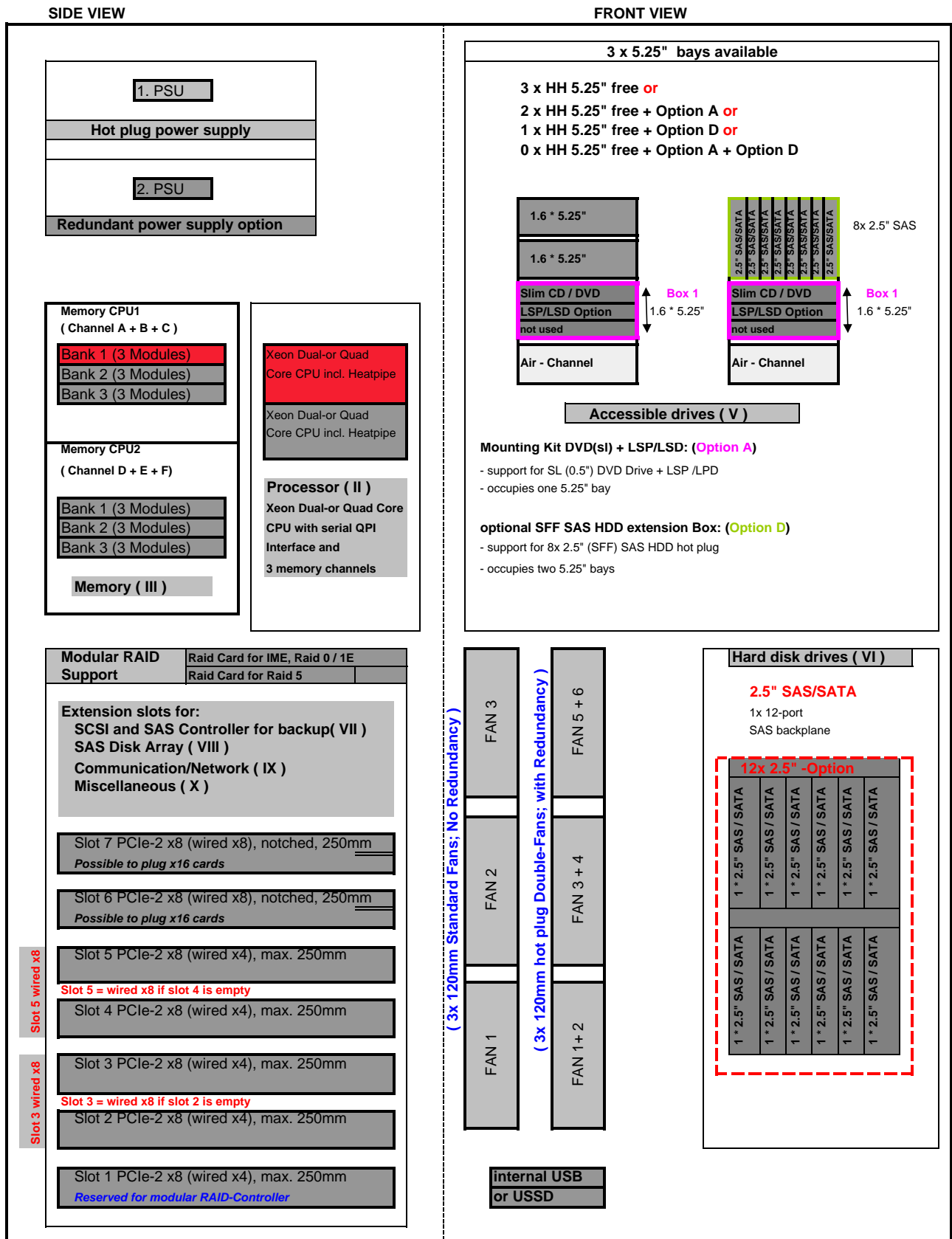


Key: Included in basic unit Option (LP ready = Slots for low profile boards)

One CPU (first CPU) and one memory per CPU (first memory) has to be selected for an orderable basic unit.

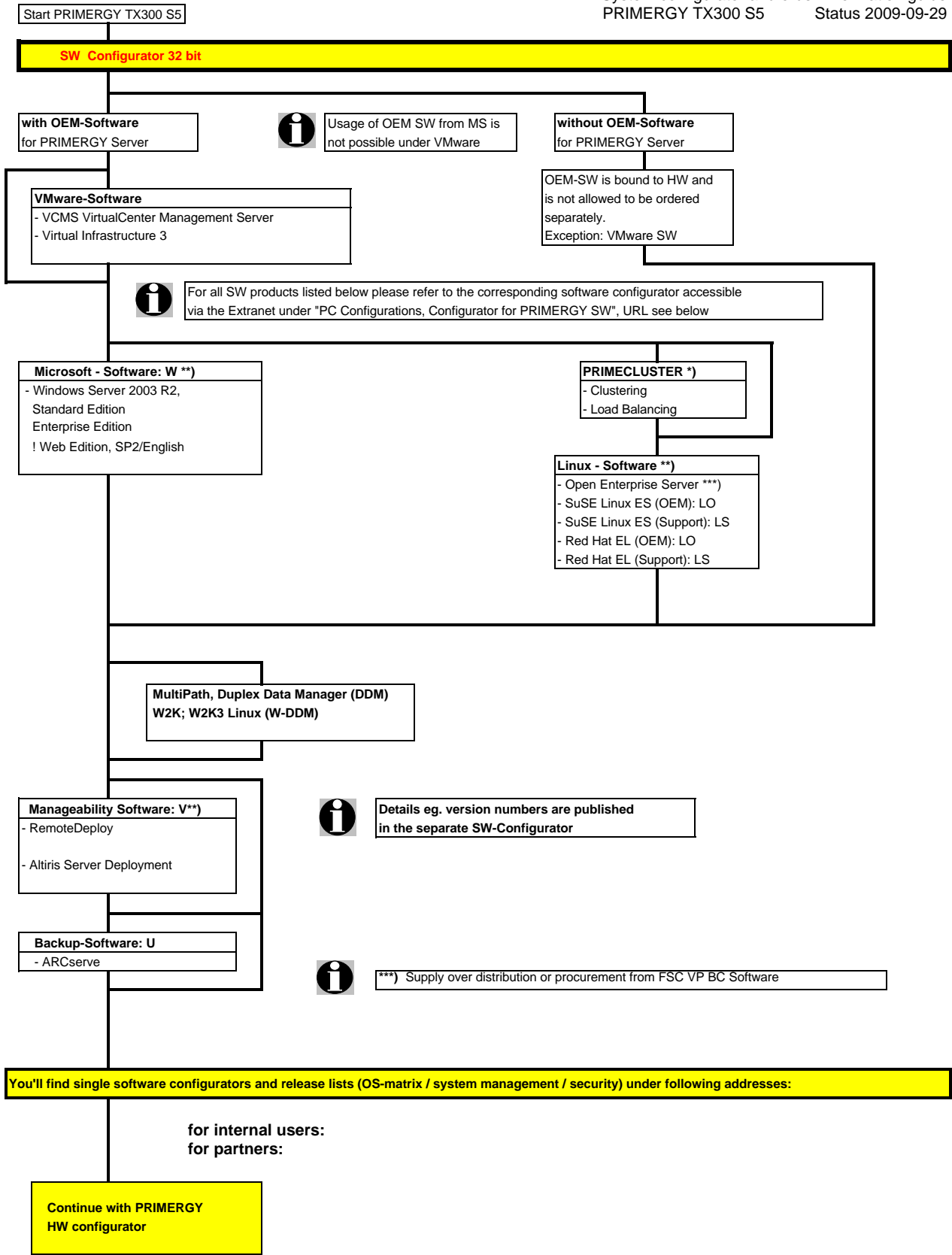
Configuration diagram PRIMERGY TX300 S5

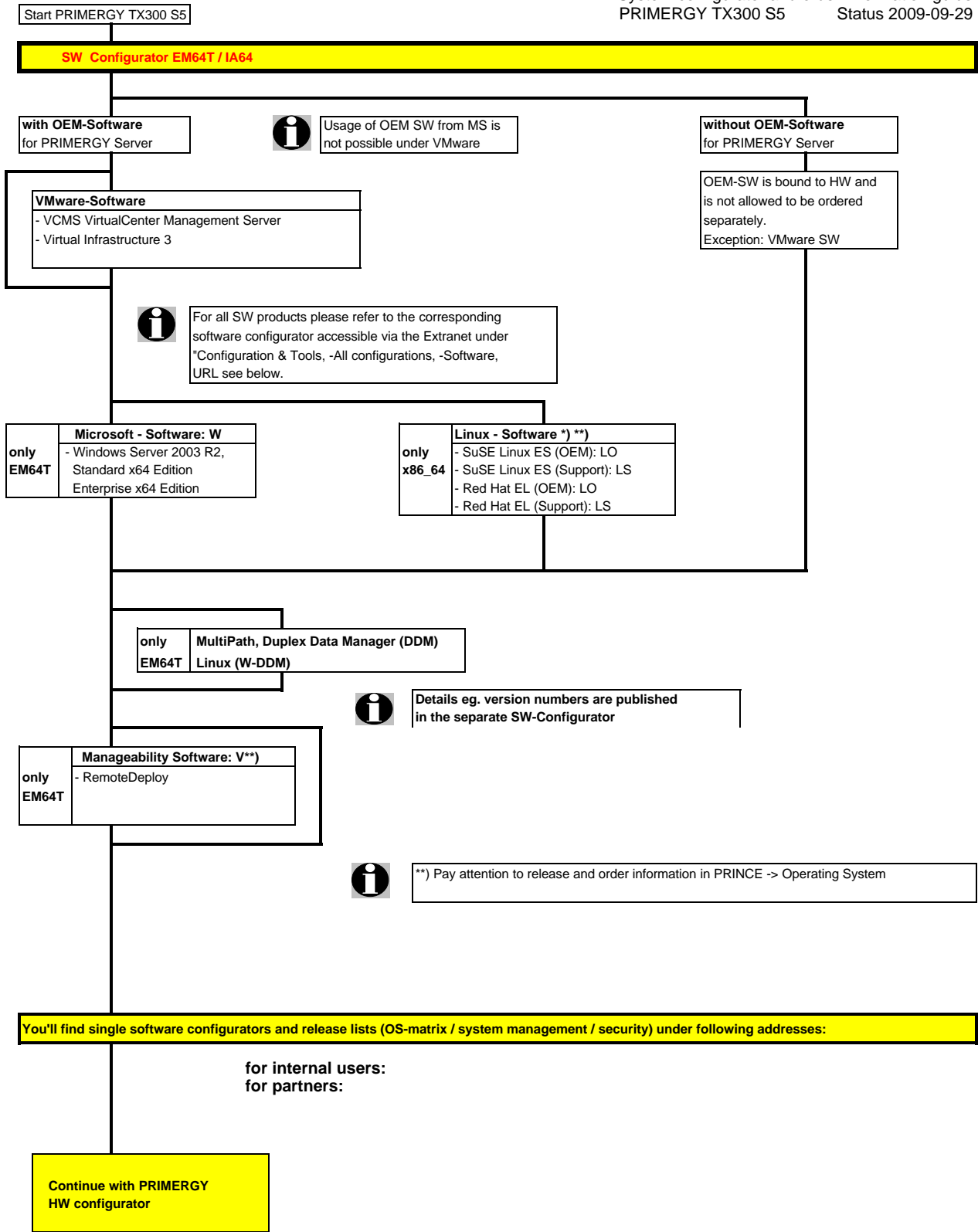
System unit (I)



Key: Included in basic unit Option (LP ready = Slots for low profile boards)

One CPU (first CPU) and one memory per CPU (first memory) has to be selected for an orderable basic unit.





Section I SAS - Basic units

**SAS - System unit, Rack and Floorstand including:**

- * By a key lockable front slider in floorstand version
- * Basic units with:
 - A.) - 1x 800W Hot-Plug Power Supply (no redundancy) + 3x 120mm Standard Fans (no redundancy)
 - B.) - 2x 800W Hot-plug and redundant Power Supplies + 3x hot-plug and redundant Double Fans
- 9 memory DIMMs per CPU (max 72GB) => Total 18 DIMMs (max 144GB) for two CPU's
- SAS backplane with 6 x 1" bays for 3.5" hot plug SAS or SATA HD's
- * 3 drive bays 5,25" for accessible drives free available.
- * Integrated ServerView Diagnostics Technology (Diagnosis LED's) for indication of internal failed components

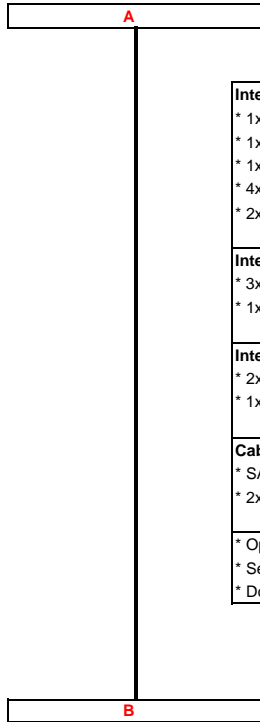
Options:

- * 2nd hot plug power supply module 800W (PSU) for redundancy in Basic Unit A.)
- * 12x 2.5" HD backplane conversion kit
- * - Optional modular RAID 0/1 controllers with IME (Integrated Mirroring Enhanced) support based on LSI 1064 or LSI 1068 chipset or as alternative
- optional modular RAID 5 controller based on LSI 1078 chipset
- * One 0,5" bay can be configured with an optional LC- display for LocalView in a drawer or with an optional CSS (Customer Self Service) modul for indication of a failed component via LED's
- Simultaneously components are marked which can be replaced by the customer.
- This LEDs can be dispalyed during service even without mains connection.

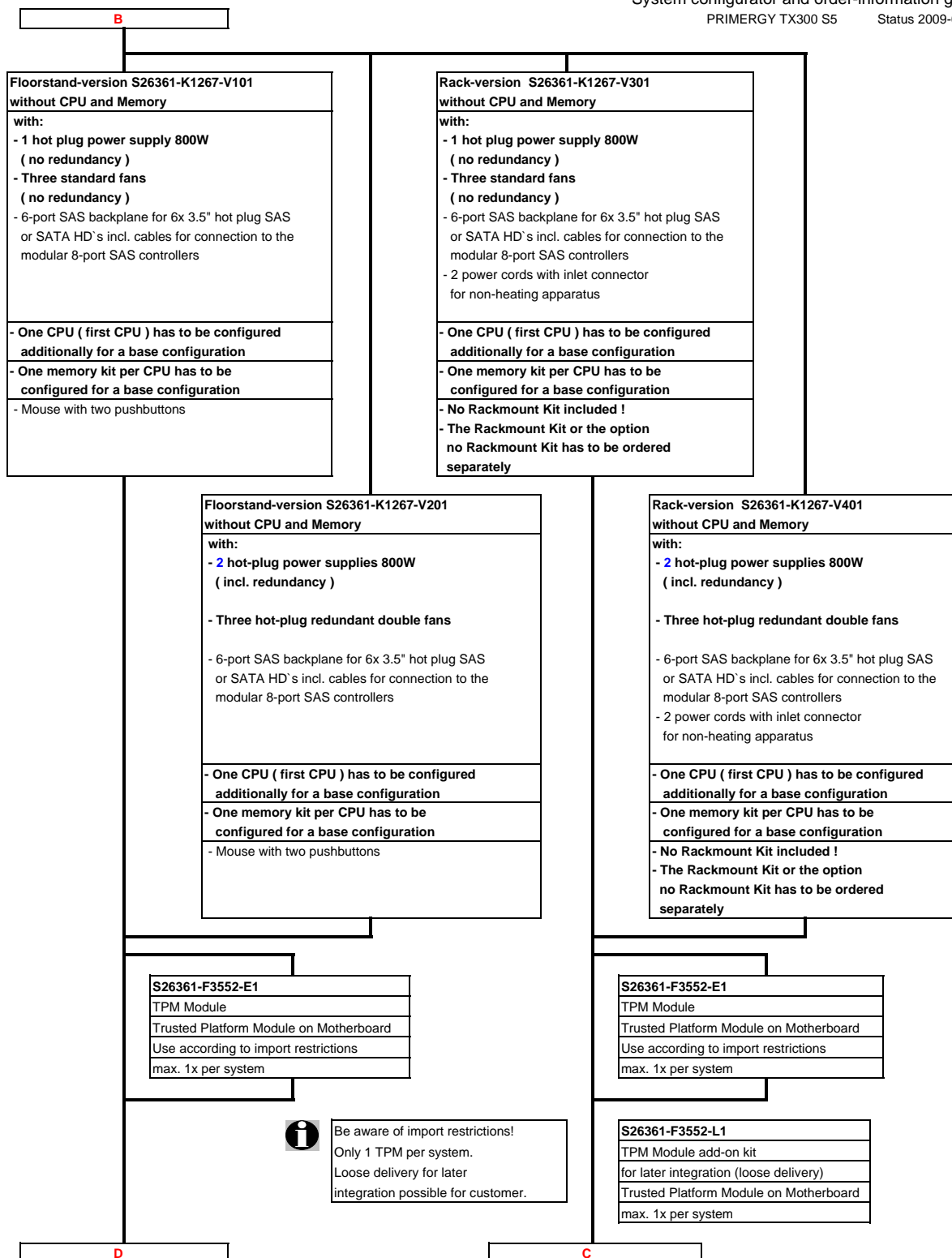
Systemboard D2619 with:

- * Up to two Xeon Dual Core, Quad-Core or Turbo Quad Core CPU's (Nehalem-EP, LGA 1366 socket) with serial QPI links (Quick Path Interconnect) and three memory channels per CPU
- First CPU has to be selected for an orderable basic unit,
- * Chipset Intel® 5520P (codenamed Tylersburg-EP or 36D)
- * 7 PCI slots: - 2x PCIe-2 x8 (wired x8, notched, possible to plug x16 card)
- 5x PCIe-2 x8 (wired x4)
- From 4 PCIe-slots each two wired x4 slots can be combined to one wired x8 slot
- One PCIe-2-slot is populated with one of two possible modular Raid-controllers.
- * 18 memory slots for max. 144GB RAM DDR3 available
- Memory is divided into 9 DIMMs per CPU (3 channels with 3 slots per channel)
- Max. three 8GB modules or two 8GB / 16GB quad rank modules are possible per channel
- First Memory (one module) has to be selected for an orderable basic unit per CPU
- Memory upgrade is possible module wise
- Memory mirroring is supported with 2 identical modules in channel A+B CPU 1 or D+E CPU 2
- Hot Spare Memory is supported with 3 identical modules in channel A+B+C CPU 1 or D+E+F CPU 2
- SDDC (Chipkill) is supported for memory modules,
- * Dual Port 10/100/1000 x4 PCI Express* Gigabit Ethernet Intel LAN controller Zoar on-board
- * iRMC S2 (integrated Remote Management Controller) on-board server management controller with dedicated 10/100 Service LAN-port and integrated graphics controller.
- The Service LAN-port can be switched alternatively on standard Gbit LAN port 1
- * Graphics Controller integrated in iRMC S2 (integrated Remote Management Controller):
- 1600x1200x16bpp 60Hz, 1280x1024x16bpp 60Hz, 1024x768x32bpp 75Hz, 800x600x32bpp 85Hz,
- 640x480x32bpp 85Hz
- (1280x1024x24bpp 60Hz only possible if local monitor or remote video redirection is off)

A

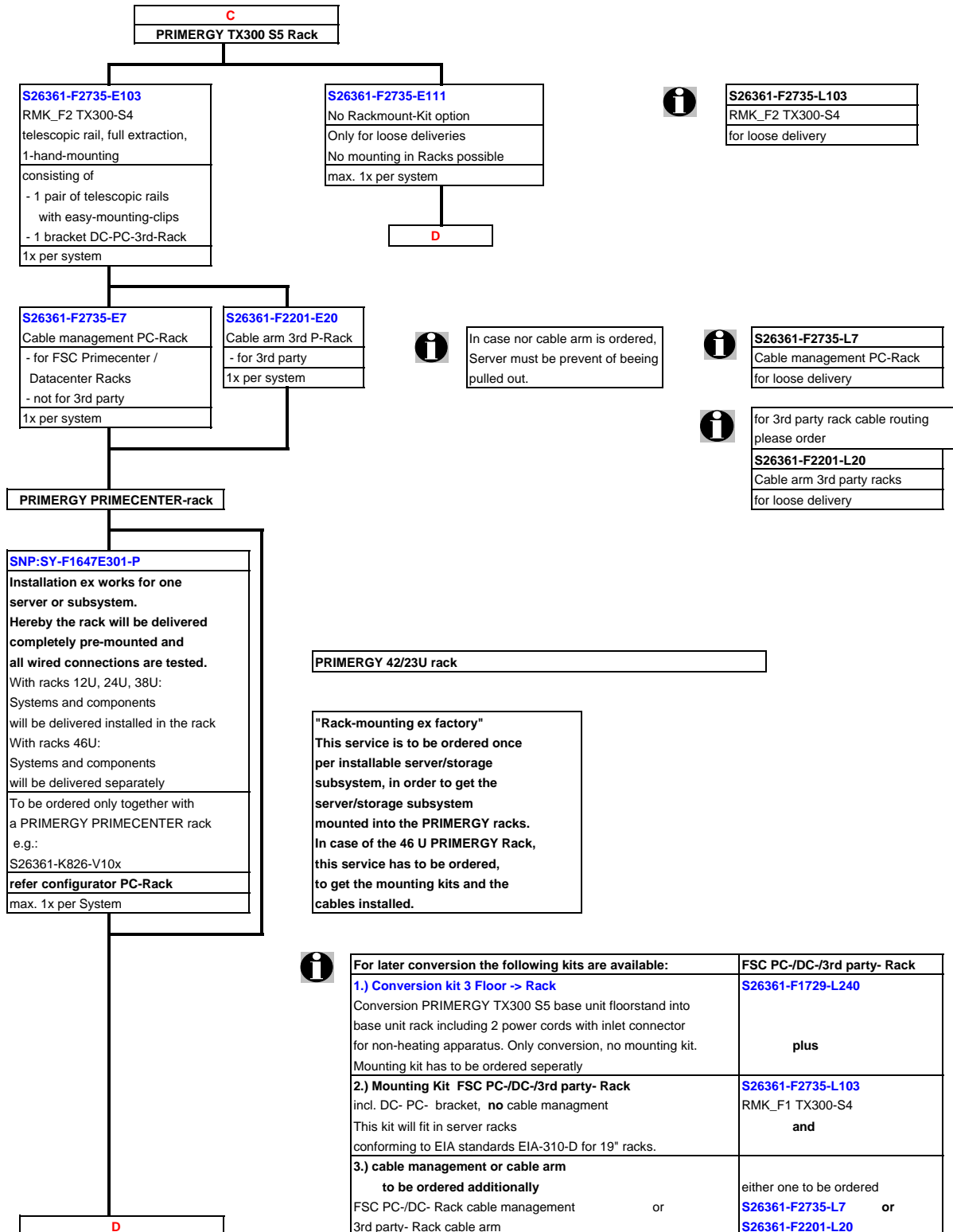


Interfaces at the rear: * 1x RS-232-C (serial, 9 pins) (usable for BMC or OS or shared) * 1x RS-232-C (serial, 9 pins) * 1x VGA (15 pins) * 4x USB 2.0 (UHCI) with 480MBit/s , no USB wakeup * 2x LAN RJ45, 1x Service-LAN RJ45
Interfaces on the front: * 3x USB 2.0 (UHCI) with 480MBit/s , no USB wakeup * 1x VGA (15 pins) as an option
Interfaces internal: * 2x released internal USB Interfaces for backup devices, * 1x USB 2.0 (UHCI) with 480MBit/s for dongle functionality, no USB wakeup
Cables: * SATA cable for DVD. * 2x SAS cables for connection of 4 SAS-ports each incl. signaling
* Optical Wheel Mouse USB (only for floorstand version) * ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates * Documentation engl. (multilingual on CD)












Mounting kits for PRIMERGY TX300 S5
 - 1 pair of telescopic rails full extraction
 - 1 Vario carrier DC-PC-3rd party Rack
 allows toolless adjustable in depth and easy mounting
 - 1 bracket PRIMECENTER and DataCentre-Racks
**Mounting kit for mounting of servers in FSC 19" PRIMECENTER- racks
 and all server racks conforming to EIA standard EIA-310-D for 19" racks.**
Therefore the mounting kit is variable in depth from 704-790mm



D

Cables included in basic unit

Connections	Cable
1. SATA DVD	
2. Basic unit with 6-port SAS backplane for 6 3.5" SAS/SATA hard disks	
	2 SAS cables 
	for 4 SAS-ports each
1x cable for SAS signaling	
	

Key:
 68pins
 IDE
 terminator

Only possible for basic units S26361-K1267-V101 and -V301
Provides PSU redundancy for Basic Units without redundancy

S26113-F541-E10
2nd power supply 800W
(hot plug) for redundancy
occupies one bay for
hot plug power supply
max. 1x per system



Only floorstand versions
A second, redundant power supply requires an additional country specific power cord (section XIII)

for later upgrade of basic units S26361-K1267-V101 and -V301
with redundant fan upgrade kit

Hot Plug Redundant Fan Upgrade Kit: For upgrade of standard into redundant fans Consist of three fan boxes with one redundant 120mm double fan each	S26361-F2544-L83
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1 power supply module 800W hot plug: Supplementary module	S26113-F541-L10
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E

E

Section II Processor



There are 2 processor sockets available.
The first socket is always equipped with the **first CPU** which can be selected via configurator
It is also possible to upgrade a dual-processor system later on with a **second CPU**
Two processors with different clock frequencies are not possible
A multi-processor operating system is required for a dual-processor system.

Max. two CPU's can be selected per basic unit	
One of following CPU's has to be selected as first CPU for an orderable basic unit	
Optional second CPU has to be the same type like the first CPU	
Dual-Core CPU with max. DDR3 Bus Speed 800MHz	
- 1x 64-bit Intel Xeon DP (4MB shared TLC = Third Level Cache) and passive heat sink occupies socket for one CPU	
Xeon DP E5502 (1,86GHz/4M/4,8GT) / 80W	S26361-F3277-E186
Quad-Core CPU's with max. DDR3 Bus Speed 800MHz	
- 1x 64-bit Intel Xeon DP (4MB shared TLC = Third Level Cache) and passive heat sink occupies socket for one CPU	
Xeon DP E5504 (2,00GHz/4M/4,8GT) / 80W	S26361-F3278-E200
Xeon DP E5506 (2,13GHz/4M/4,8GT) / 80W	S26361-F3278-E213
Turbo Quad-Core CPU's with max. DDR3 Bus Speed 1066MHz	
- 1x 64-bit Intel Xeon DP (8MB shared TLC = Third Level Cache); Hyper-Threading (HT) and passive heat sink occupies socket for one CPU	
Xeon DP E5520 (2,26GHz/8M/5,86GT) / 80W	S26361-F3279-E226
Xeon DP E5530 (2,40GHz/8M/5,86GT) / 80W	S26361-F3279-E240
Xeon DP E5540 (2,53GHz/8M/5,86GT) / 80W	S26361-F3279-E253
Turbo Quad-Core CPU's with max. DDR3 Bus Speed 1333MHz	
- 1x 64-bit Intel Xeon DP (8MB shared TLC = Third Level Cache); Hyper-Threading (HT) and passive heat sink occupies socket for one CPU	
Xeon DP X5550 (2,66GHz/8M/6,4GT) / 95W	S26361-F3280-E267
Xeon DP X5560 (2,80GHz/8M/6,4GT) / 95W	S26361-F3280-E280
Xeon DP X5570 (2,93GHz/8M/6,4GT) / 95W	S26361-F3280-E293
Xeon DP W5590 (3,33GHz/8M/6,4GT) / 130W	S26361-F3337-E333
Low Voltage Quad-Core CPU with max. 800MHz DDR3 speed (4.8GT/s)	
- 1x 64-bit Intel Xeon DP (4MB shared TLC = Third Level Cache) and passive heat sink occupies socket for one CPU	
Xeon LV DP L5506 (2,13GHz/4M/4,8GT) / 60W	S26361-F3281-E213
Low Voltage Turbo Quad-Core CPU's with max. DDR3 Bus Speed 1066MHz	
- 1x 64-bit Intel Xeon DP (8MB shared TLC = Third Level Cache); Hyper-Threading (HT) and passive heat sink occupies socket for one CPU	
Xeon LV DP L5520 (2,26GHz/8M/5,86GT) / 60W	S26361-F3281-E226
Xeon LV DP L5530 (2,40GHz/8M/5,86GT) / 60W	S26361-F3281-E240

F

Note: Max. DDR3 Bus Speed depends on:

- max. DDR3 Bus Speed from the CPU and
- max. DDR3 Memory Speed and
- max. memory modules on one memory channel

F

Section III Memory



- There are 9 memory slots for max. 72GB DDR3 RAM per CPU available with 8GB DIMMs
=> max. 144GB for two CPU's (72GB per CPU)

(For explanation of following terms refer to section "Memory Configurations"

- The memory area is divided into 3 channels per CPU with 3 slots per channel
- Slot 1 of each channel belongs to memory bank 1, the slot 2 belongs to memory bank 2 and slot 3 belongs to memory bank 3

No mix of dual rank and quad rank modules possible for the configuration of the same CPU

1.) In the independent channel mode is following configuration possible

- Each slot can optionally be equipped with 2GB **single rank**, 4GB and 8GB **dual rank** DDR3 modules or with 8GB **quad rank** DDR3 modules

2.) In the spare channel mode is following configuration possible

- Each memory bank can optionally be equipped with 3x2GB **single rank**, 3x4GB and 3x8GB dual rank DDR3 modules or with 3x8GB **quad rank** DDR3 modules

Each slot of one bank has to be equipped with identical modules for spare channel mode

In channel A and B of CPU 1 or channel D and E of CPU 2 are always the active memory modules, in channel C of CPU 1 and channel F of CPU 2 is always the spare module

3.) In the mirrored channel mode is following configuration possible

- Each memory bank can optionally be equipped with 2x2GB **single rank**, 2x4GB and 2x8GB dual rank DDR3 modules or with 2x8GB **quad rank** DDR3 modules

In each memory bank channel A and B of CPU 1 or channel D and E of CPU 2 have to be equipped with identical modules for mirrored channel mode. Channel C of CPU 1 and channel F of CPU 2 is not equipped

In channel B is always the mirrored memory of channel A of CPU 1

In channel E is always the mirrored memory of channel D of CPU 2

**DDR3 1066 and 1333MHz modules can be mixed, but run always with the slower speed.
With three DIMMs per channel only 800MHz is possible.**

- For each CPU minimum 1 memory module has to be configured in Independent Channel Mode

(=> Additional memory extensions can still be configured up to eight times per CPU) or

one bank has to be equipped with two modules (channel A+B for CPU 1 or D+E for CPU 2) in

Mirrored Channel Mode

(=> Additional memory extensions can still be configured up to two times per CPU) or

one bank has to be equipped with three modules (channel A+B+C for CPU 1 or D+E+F for CPU 2)

in Spare Channel Mode or Performance Mode

(=> Additional memory extensions can still be configured up to two times per CPU)

- ECC with SDDC (Chipkill) is standard for TX300 S5.

For a description of memory configurations refer to section "Memory Configurations"

Minimum one memory module or order code per CPU = first memory

Registered (reg) RDIMMs

For "independent channel mode" usage!	
- One DDR3-1066 PC3-8500 reg ECC memory module	
Memory 2GB (single rank)	S26361-F3284-E513
Memory 4GB (dual rank)	S26361-F3284-E514
Memory 8GB (dual rank)	S26361-F3284-E515
Choose up to 9 order codes above per CPU.	

Note 1.)

Max. DDR3 memory speed depends on the memory configuration of one CPU memory channel and on the speed of the CPU itself.

The memory channel with the lowest speed defines the speed of all CPU channels in the system, also for the channels of the second CPU if configured.

One DIMM per channel = max. 1333MHz,

two DIMMs per channel = max. 1066MHz,

three DIMMs per channel = max. 800MHz,

9x for each CPU
with max.
3 modules
per channel

Registered (reg) RDIMMs

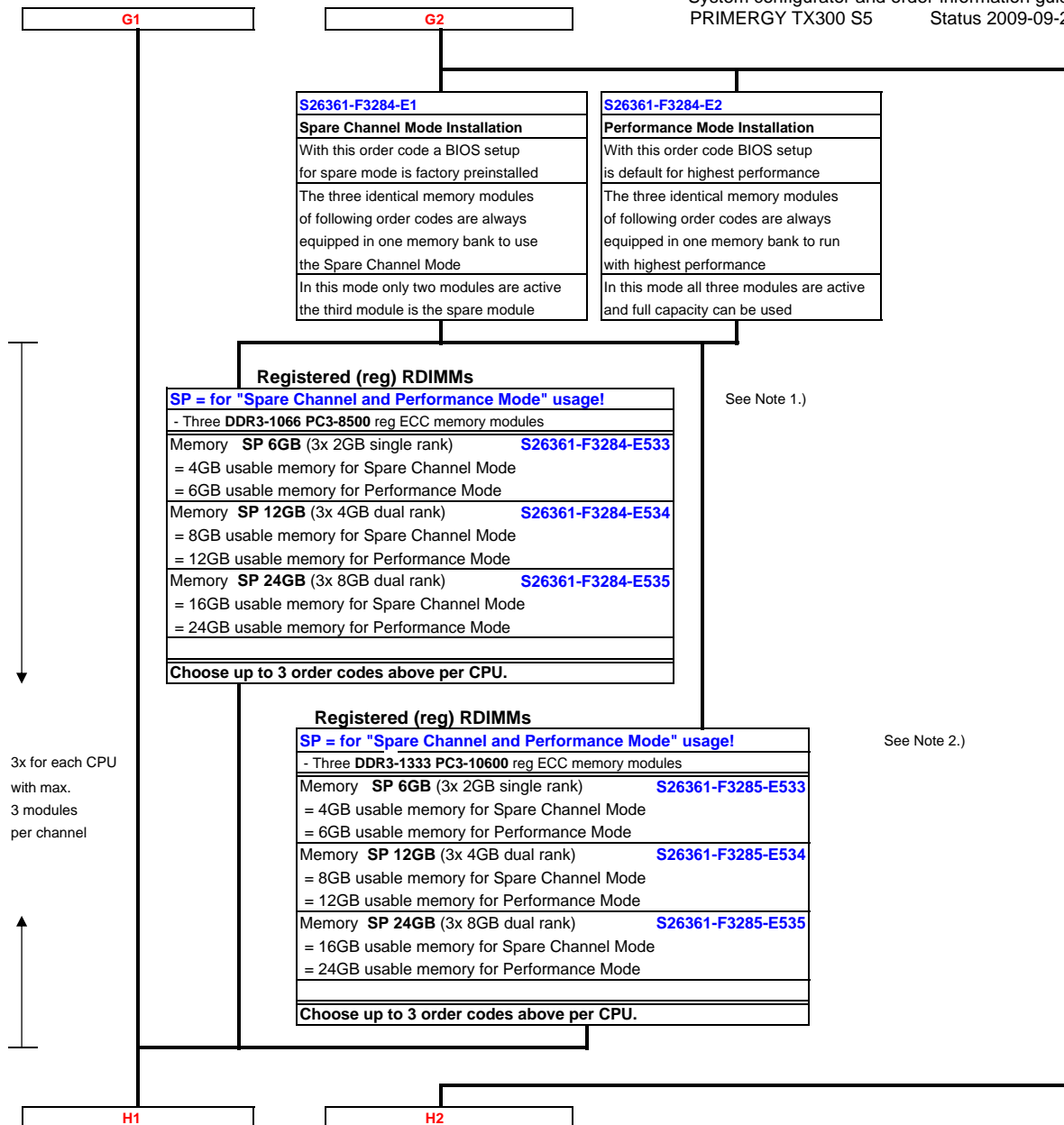
For "independent channel mode" usage!	
- One DDR3-1333 PC3-10600 reg ECC memory module	
Memory 2GB (single rank)	S26361-F3285-E513
Memory 4GB (dual rank)	S26361-F3285-E514
Memory 8GB (dual rank)	S26361-F3285-E515
Choose up to 9 order codes above per CPU.	

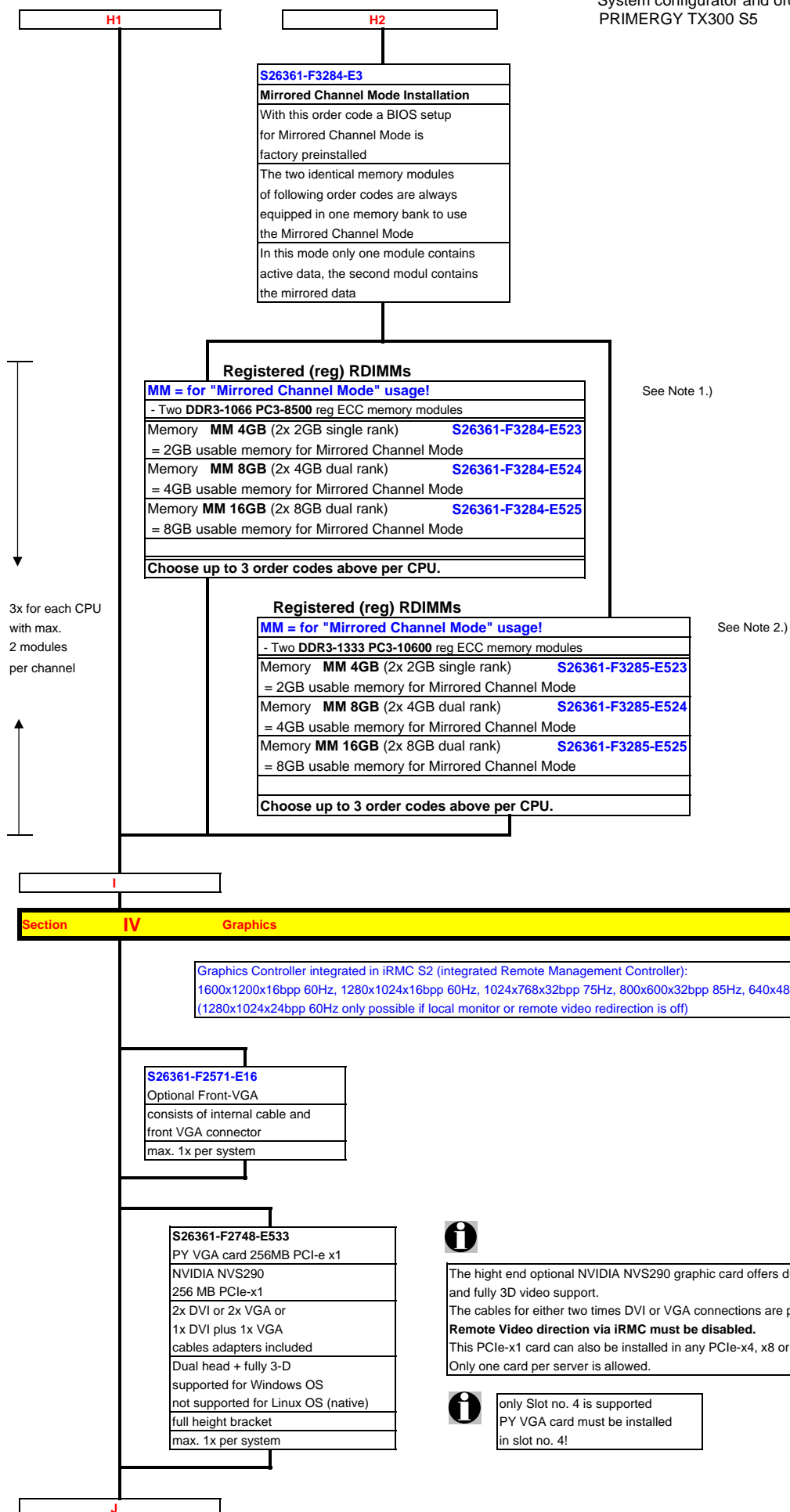
Note 2.)

Max. DDR3 memory speed 1333MHz is only possible with CPU's X5550 and X5570

G1

G2





Memory Configuration PRIMERGY TX300 S5

Each CPU offers **9 Slots** for DDR3 Memory Modules organised in **3 Banks and 3 Channels**.

If you need more than 9 Slots you have to configure the 2nd CPU.

Depending on the amount of memory configured you can decide between 4 basic modes of operation (see explanation below).

For TX300 S5 only registered DDR3 memory modules (RDIMM) are available.

Mode	Configuration	RDIMM	Application
chip kill support	any	yes	detect multi-bit errors
Independant Channel Mode	1, 2 or 3 Modules per Bank x	x	offers max. flexibility, upgradeability, capacity use UDIMM modules for lowest cost
Mirrored Channel Mode	2 identical Modules / Bank **)	x	offers maximum security
Performance Mode *)	3 identical Modules / Bank **)	x	offers maximum performance and capacity
Spare Channel Mode *)	3 identical Modules / Bank **)	x	balances security and capacity

*) = Performance Mode and Spare mode use different BIOS settings.

**) = technically possible but no Order Numbers available, use at your own risk

x = order codes available

Memory-Speed:

Max. DDR3 memory speed depends on the memory configuration on one memory channel and the speed of the CPU

One DIMM per channel = max. 1333MHz, two DIMMs per channel = max. 1066MHz, three DIMMs per channel = max. 800MHz,

The memory channel with the lowest speed defines the speed of all CPU channels in the system,

Used CPU	Max. Memory-Bus speed depending on DIMMs / channel if following memory speed is used for specific CPU's					
	1066MHz (1 DIMM)	1066MHz (2 DIMMs)	1066MHz (3 DIMMs)	1333MHz (1 DIMM)	1333MHz (2 DIMMs)	1333MHz (3 DIMMs)
Dual-Core CPU with max. 800MHz DDR3 speed (4.8GT/s)						
Xeon DP E5502 (1.86GHz/4M/4,8GT) / 80W	800 MHz	800 MHz	800 MHz	800 MHz	800 MHz	800 MHz
Quad-Core CPU's with max. 800MHz DDR3 speed (4.8GT/s)						
Xeon DP E5504 (2.00GHz/4M/4,8GT) / 80W	800 MHz	800 MHz	800 MHz	800 MHz	800 MHz	800 MHz
Xeon DP E5506 (2.13GHz/4M/4,8GT) / 80W	800 MHz	800 MHz	800 MHz	800 MHz	800 MHz	800 MHz
Turbo Quad-Core CPU's with max. 1066MHz DDR3 speed (5.86GT/s)						
Xeon DP E5520 (2.26GHz/8M/5,86GT) / 80W	1066 MHz	1066 MHz	800 MHz	1066 MHz	1066 MHz	800 MHz
Xeon DP E5530 (2.40GHz/8M/5,86GT) / 80W	1066 MHz	1066 MHz	800 MHz	1066 MHz	1066 MHz	800 MHz
Xeon DP E5540 (2.53GHz/8M/5,86GT) / 80W	1066 MHz	1066 MHz	800 MHz	1066 MHz	1066 MHz	800 MHz
Turbo Quad-Core CPU's with max. 1333MHz DDR3 speed (6.4GT/s)						
Xeon DP X5550 (2.66GHz/8M/6,4GT) / 95W	1066 MHz	1066 MHz	800 MHz	1333 MHz	1066 MHz	800 MHz
Xeon DP X5560 (2.80GHz/8M/6,4GT) / 95W	1066 MHz	1066 MHz	800 MHz	1333 MHz	1066 MHz	800 MHz
Xeon DP X5570 (2.93GHz/8M/6,4GT) / 95W	1066 MHz	1066 MHz	800 MHz	1333 MHz	1066 MHz	800 MHz
Low Voltage Quad-Core CPU with max. 800MHz DDR3 speed (4.8GT/s)						
Xeon LV DP L5506 (2.13GHz/4M/4,8GT) / 60W	800 MHz	800 MHz	800 MHz	800 MHz	800 MHz	800 MHz
Low Voltage Turbo Quad-Core CPU with max. 1066MHz DDR3 speed (5.86GT/s)						
Xeon LV DP L5520 (2.26GHz/8M/5,86GT) / 60W	1066 MHz	1066 MHz	800 MHz	1066 MHz	1066 MHz	800 MHz

Configuration hints:

- The memory sockets on the systemboard offer a color coding:

Bank I black sockets

Bank II blue sockets

Bank III green sockets

- A so called Bank consists of 1 memory module on every Channel available on one CPU (examples see below)

Bank I on CPU 1 up to 3 memory modules connected to Channel A, B and C on the first CPU

Bank II on CPU 1 up to 3 memory modules connected to Channel A, B and C on the first CPU

Bank III on CPU 1 up to 3 memory modules connected to Channel A, B and C on the first CPU

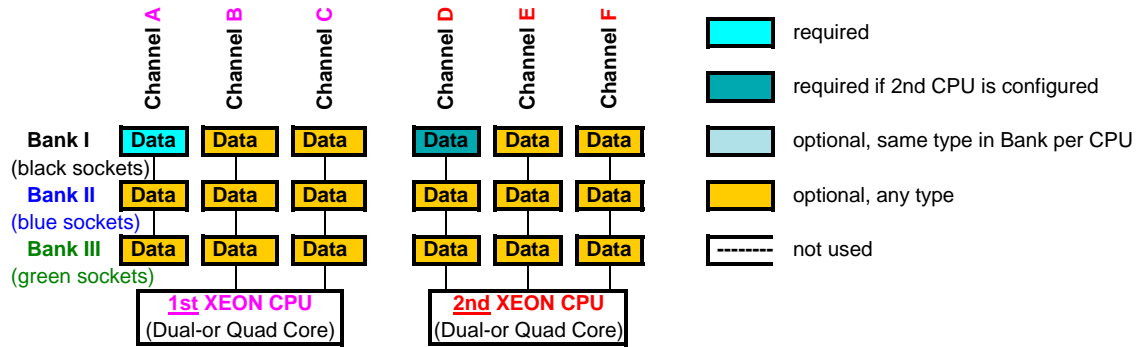
Bank I on CPU 2 up to 3 memory modules connected to Channel D, E and F on the second CPU

Bank II on CPU 2 up to 3 memory modules connected to Channel D, E and F on the second CPU

Bank III on CPU 2 up to 3 memory modules connected to Channel D, E and F on the second CPU

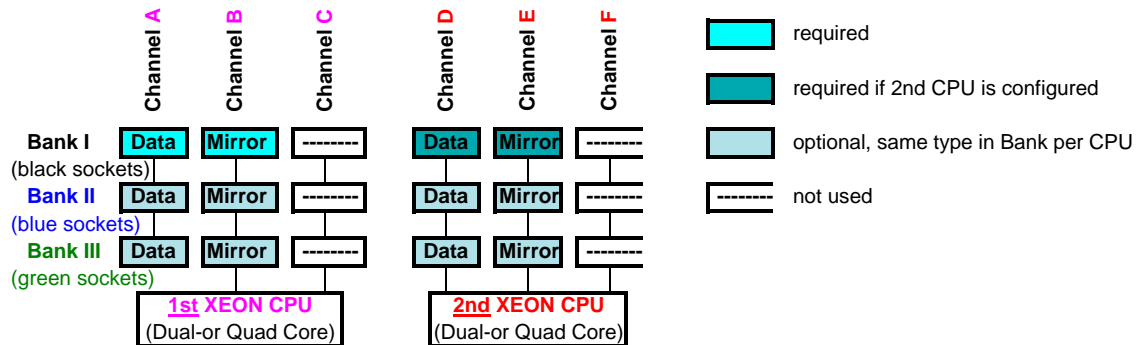
- See below and next page for a detailed descriptions of the memory configuration supported.

1. Independent Channel Mode



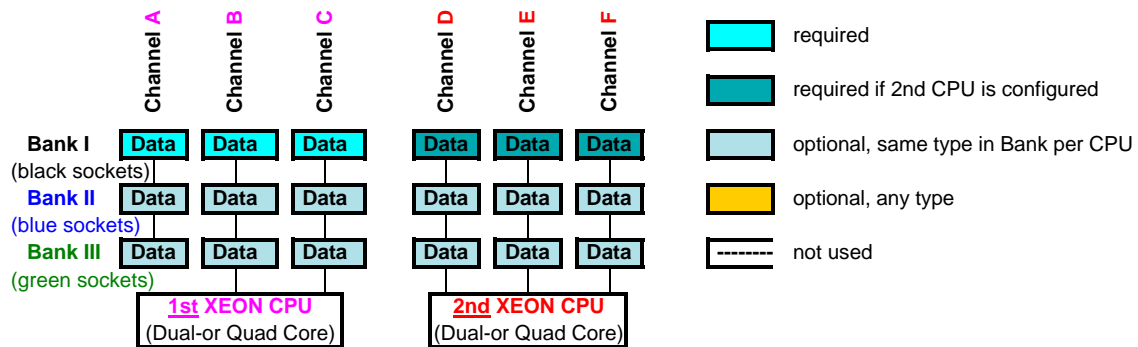
Independent Channel Mode allows all channels to be populated in any order
Can run with differently rated DIMMs and use the settings of the slowest DIMM installed in the system

2. Mirrored Channel Mode



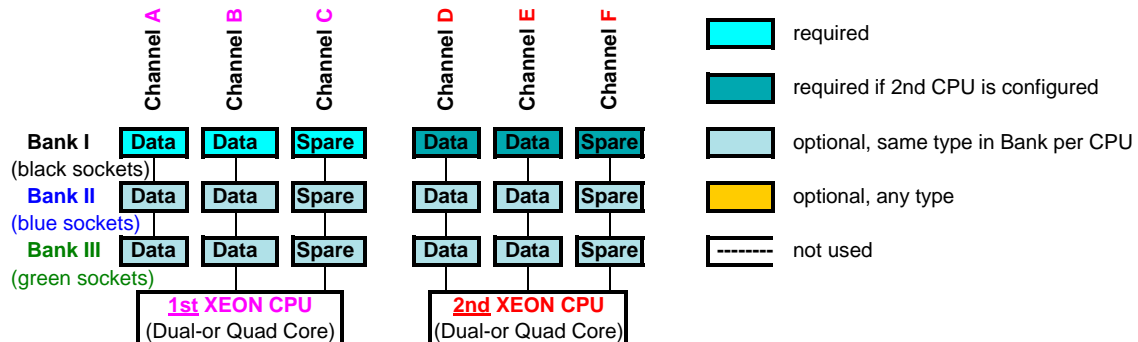
Mirrored Channel Mode requires identical modules on channel A and B (1st CPU) or channel D and E (2nd CPU)
50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory
Channel C (1st CPU) or channel F (2nd CPU) are not usable in Mirrored Channel Mode

3. Performance Channel Mode



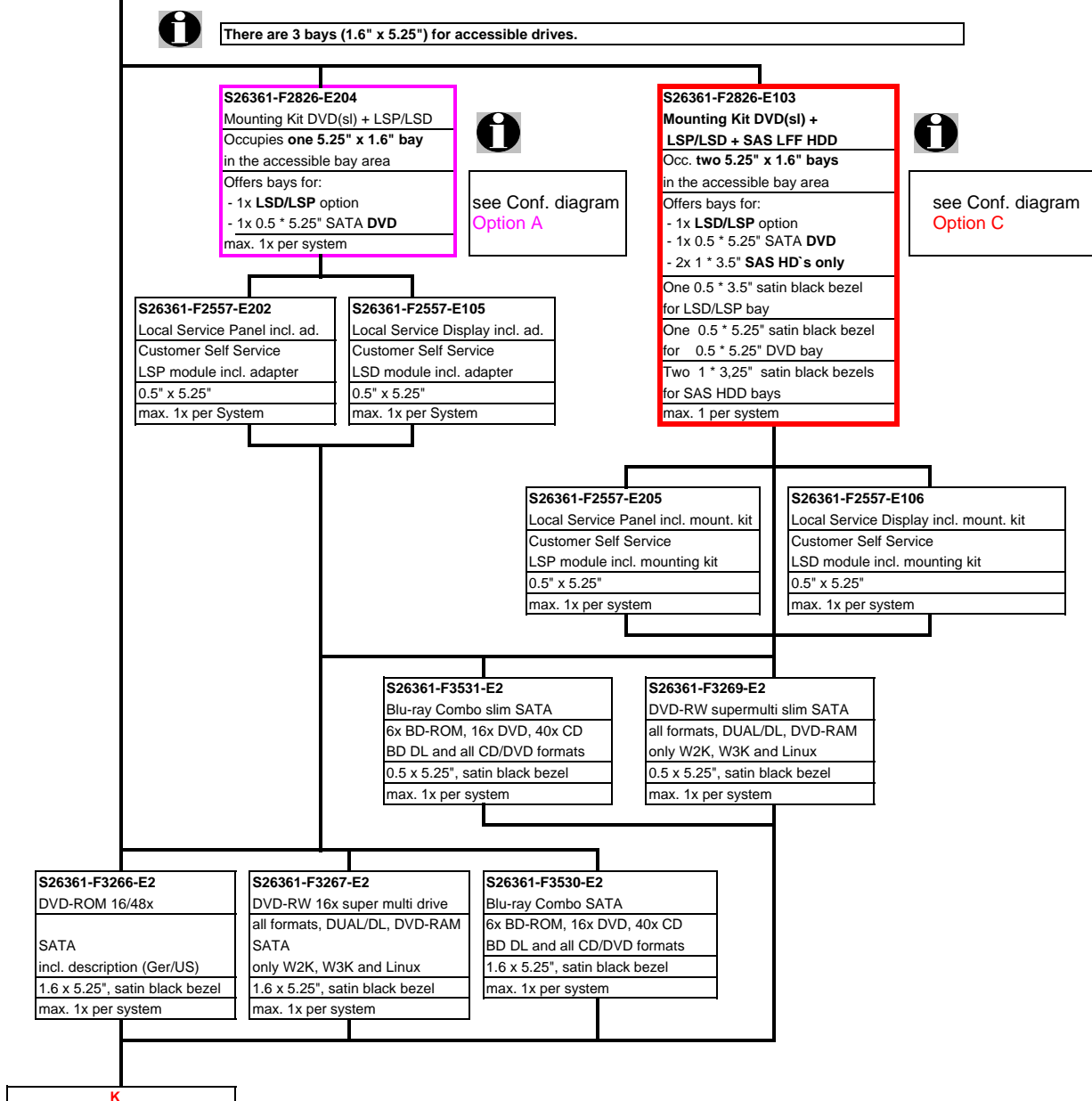
Performance Channel Mode requires identical modules on all channels of each Bank per CPU

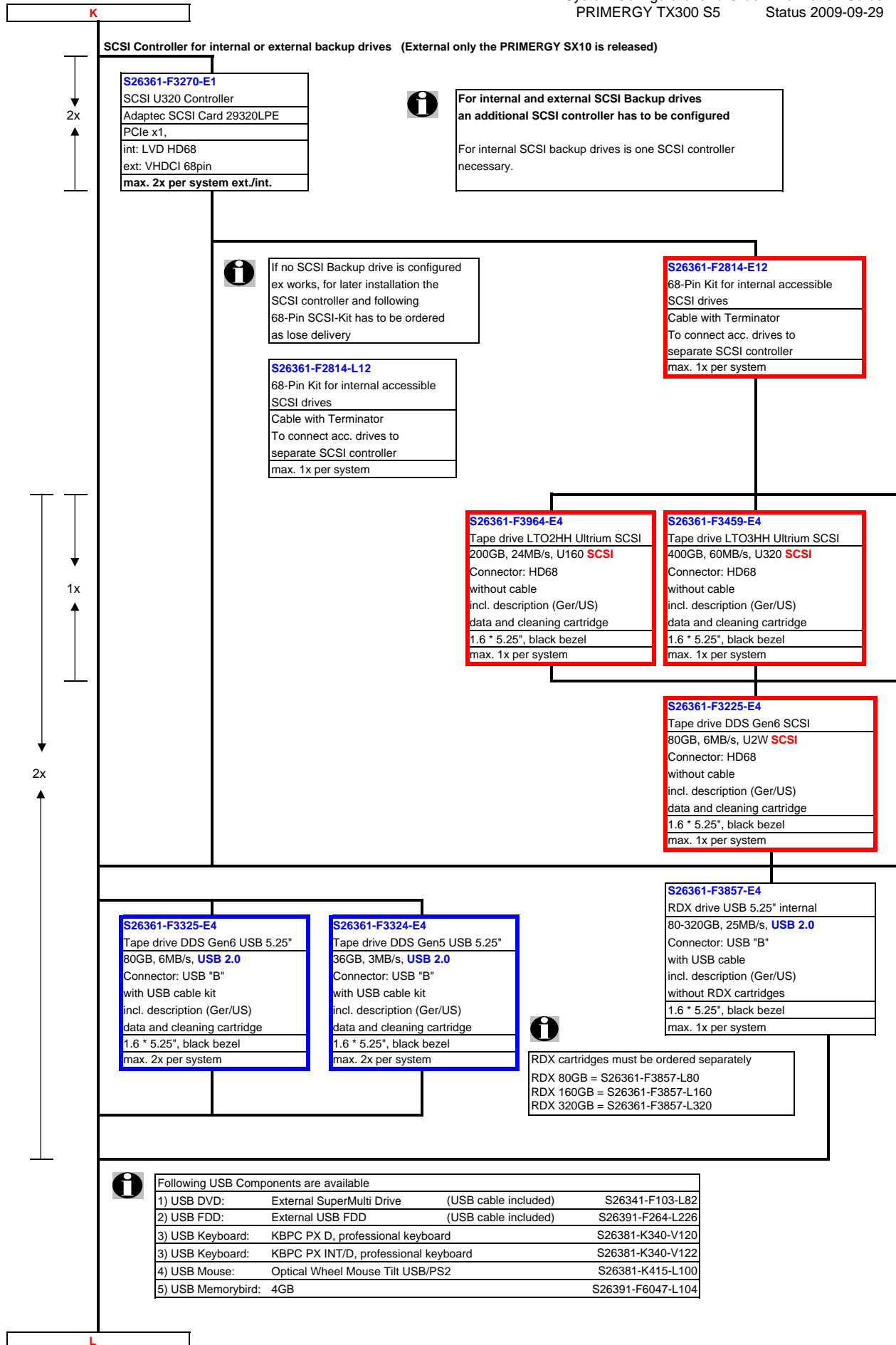
4. Spare Channel Mode

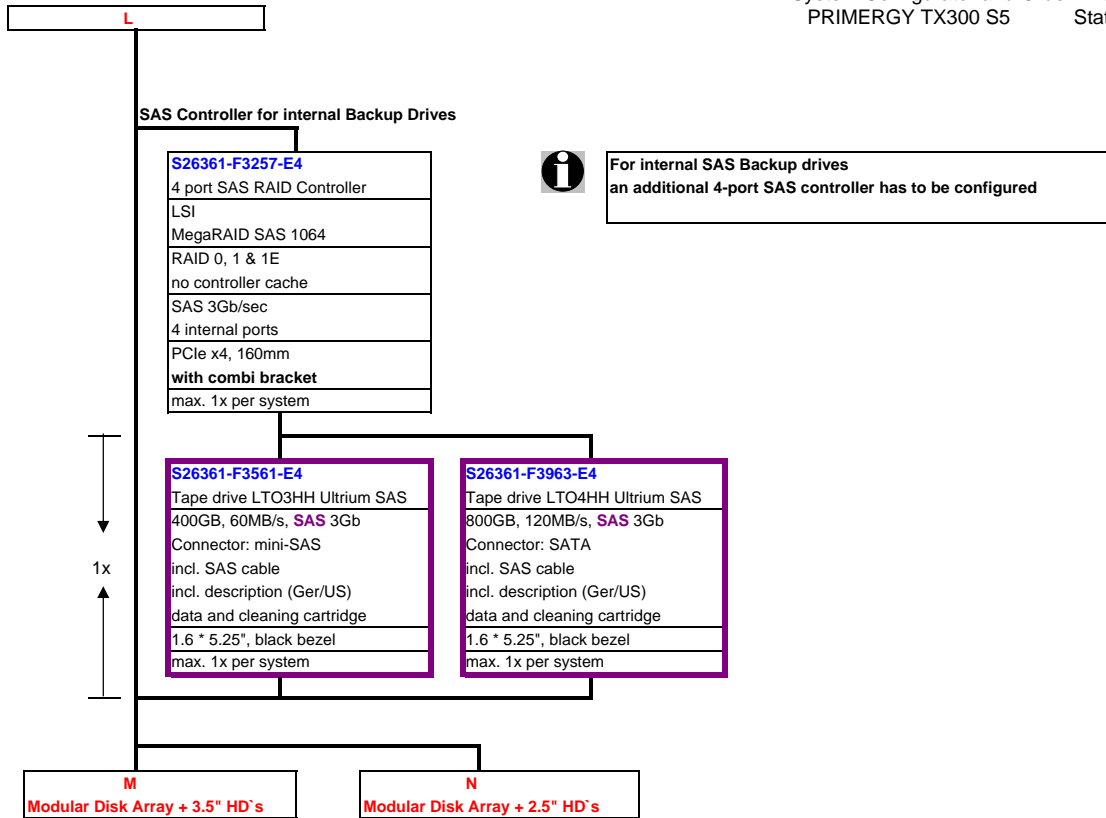


Spare Channel Mode requires identical modules on all channels of each Bank per CPU
one third of the capacity is used for the spare => the available memory for applications is two thirds of the installed memory

Section V Accessible drives and 3.5" SAS / SATA HDD extension box







S26361-F3257-E8
8 port SAS RAID Controller
LSI
MegaRAID SAS 1068
no Cache, no BBU
RAID 0, 1 & 1E
SAS 3Gb/sec
8 internal ports
PCIe x4, 160mm
with combi bracket
max. 1x per system



RAID levels 0, 1, 10, 5, 50, 6 and 60 are supported

S26361-F3257-E256
8 port SAS RAID Controller
LSI
MegaRAID SAS 1078
256MB Cache with ECC
optional BBU
SAS 3Gb/sec
8 internal ports
PCIe x4, 160mm
with combi bracket
max. 1x per system

S26361-F3257-E512
8 port SAS RAID Controller
LSI
MegaRAID SAS 1078
512MB Cache with ECC
optional BBU
SAS 3Gb/sec
8 internal ports
PCIe x4, 160mm
with combi bracket
max. 1x per system

S26361-F3257-E170
Cache Battery Backup Unit with 70cm cable set
max. 1x per Controller

S26361-F3257-E170
Cache Battery Backup Unit with 70cm cable set
max. 1x per Controller

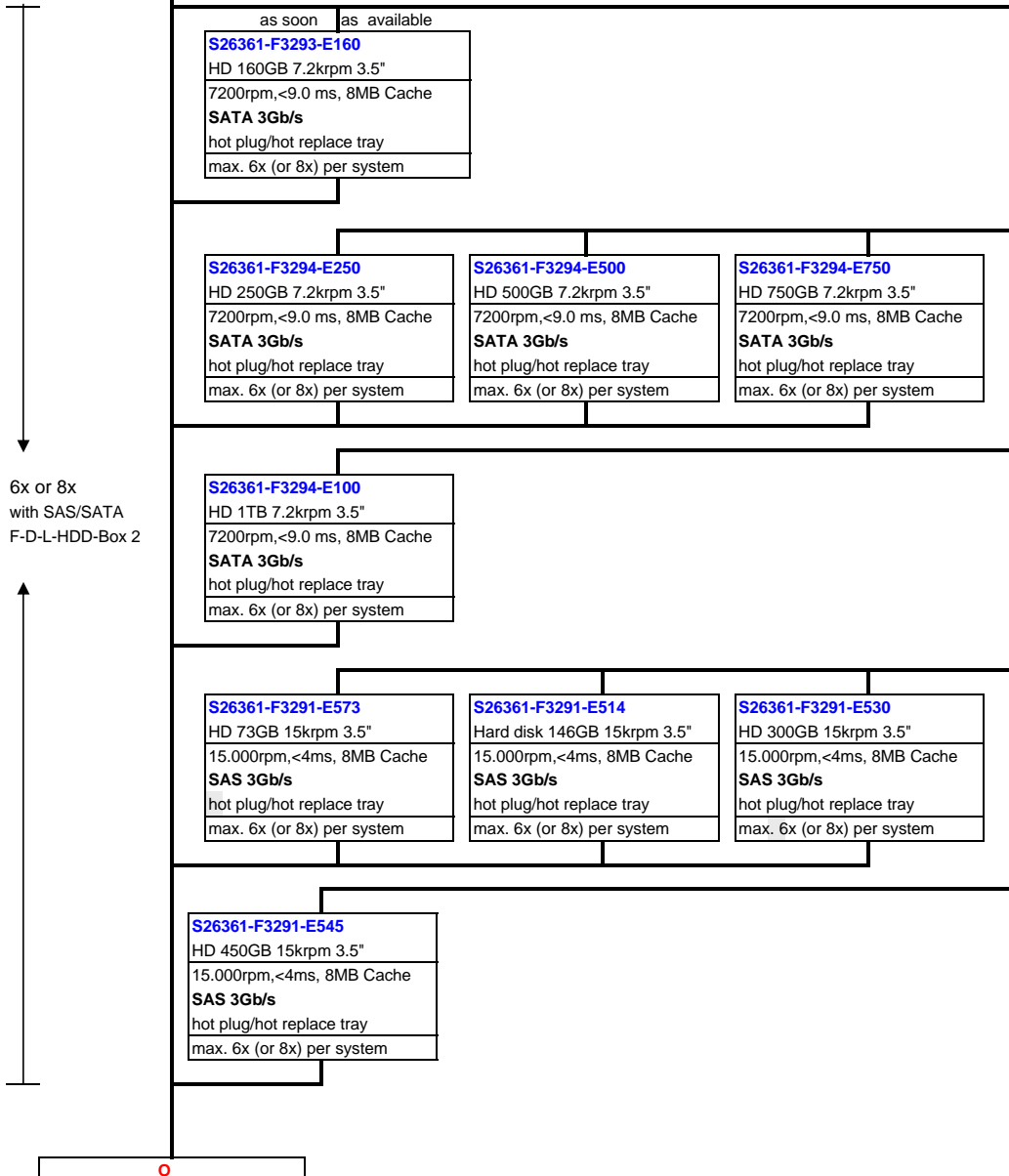
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Section M-VII 3.5" SAS / SATA Hard disk drives

In a basic unit with a 6x 3.5" HD backplane, the remaining 2 SAS ports of the 8-port modular SAS RAID-controllers can be used for additional two SAS or SATA HD's through the configuration of the 3.5" HD SAS / SATA extension F-D-L-HDD-Box 2 which offers extra two bays for SAS or SATA HD's

Up to 6 or 8 (with F-D-L-HDD-Box 2) 3.5" SAS or SATA hard disks can be configured.
3.5" SAS drives and 3.5" SATA drives can be mixed, but not used in one logical RAID volume



N

Section **N-VI** Upgrade-Kit to 2.5" HD Basic Unit

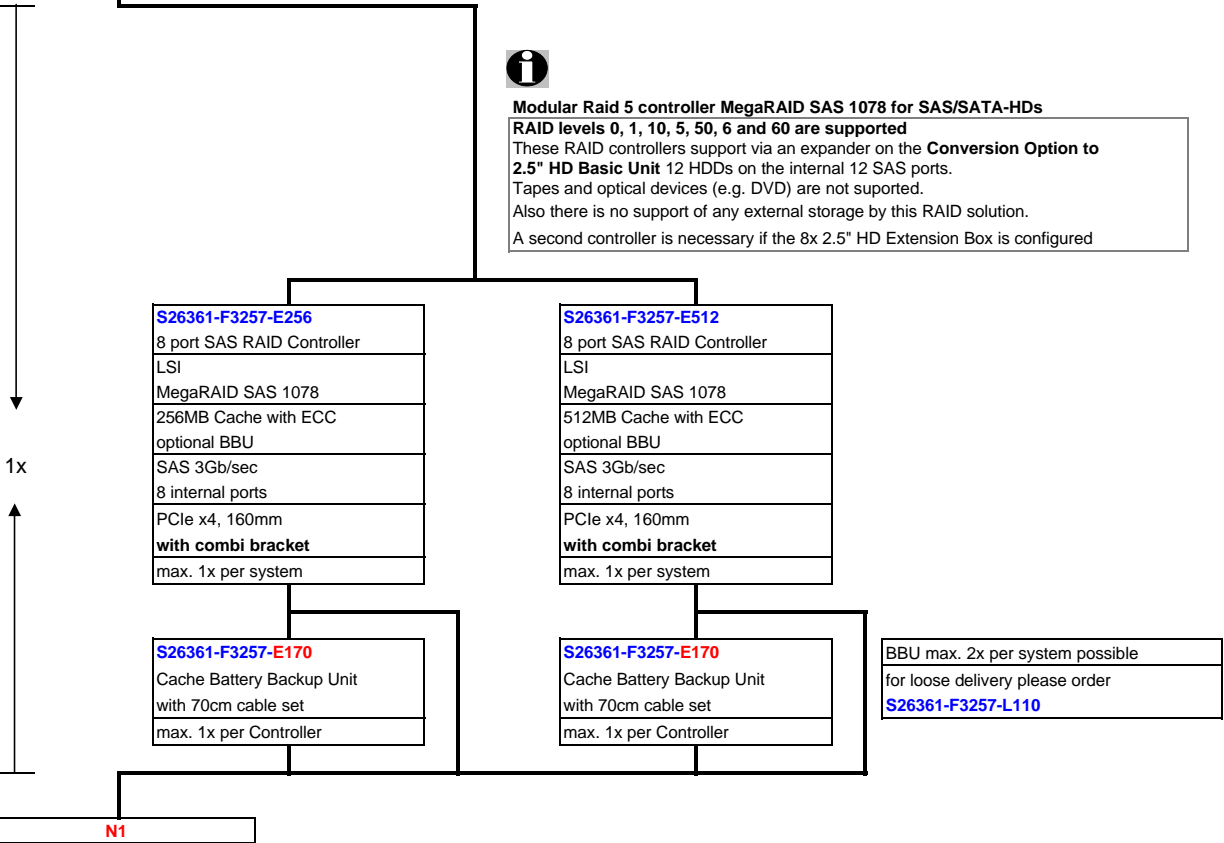
S26361-F2826-E134
Conversion Option to 2.5" HD Basic Unit
Drive Bay with one backplane for
up to **12x 2.5"** HD slots
max. 1x per system

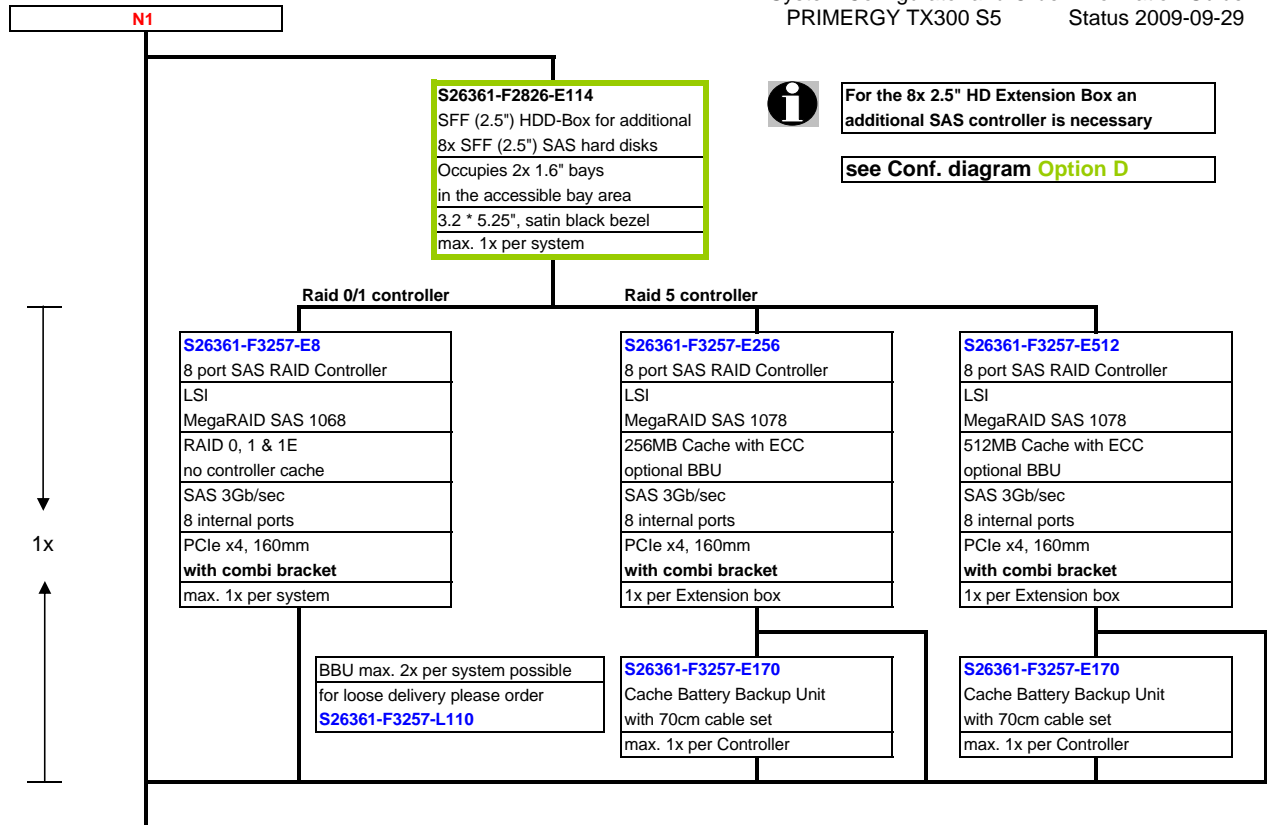
Section **N-VII** Modular Raid 0/1 and Raid5 Controller for 2.5" Hard Disks + 2.5" HD extension box

For internal 2.5" hard disks one of the following modular RAID-controllers is required

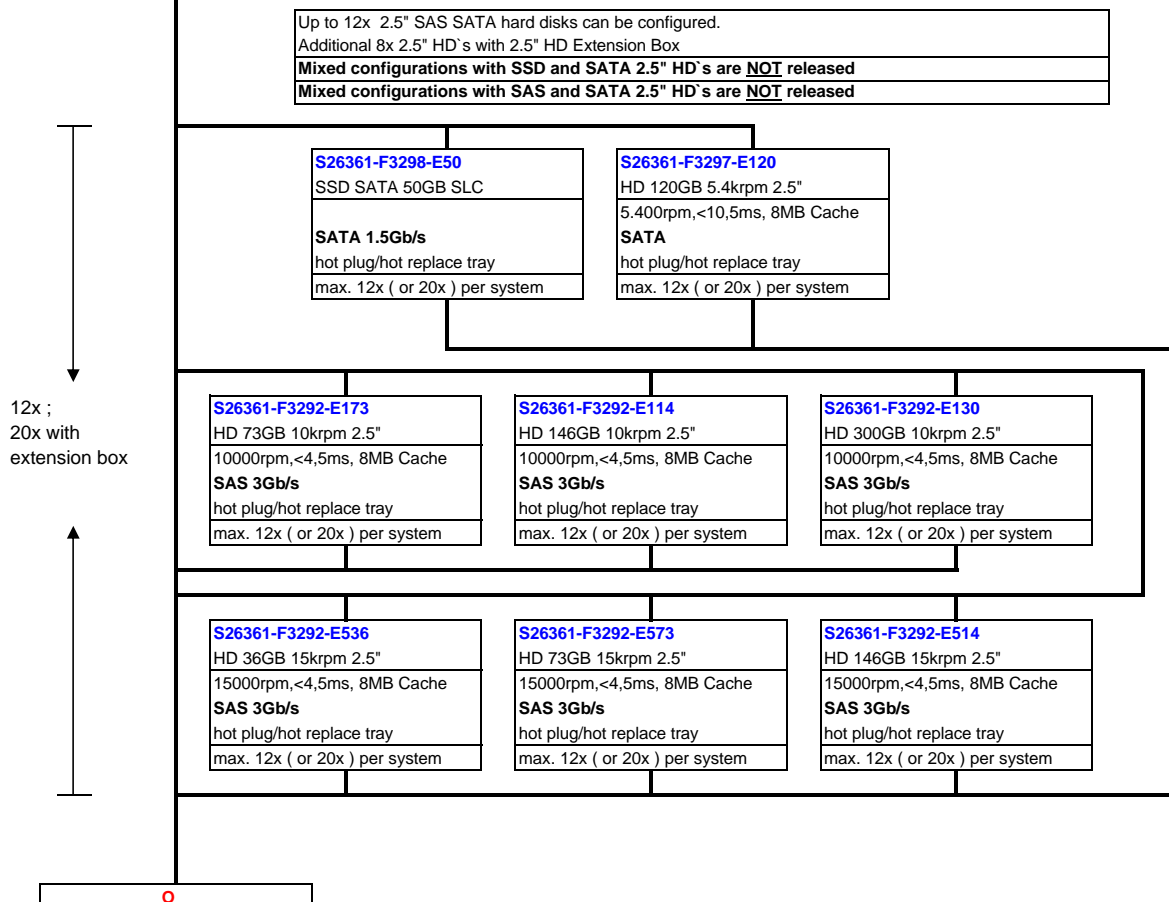


Modular Raid 5 controller MegaRAID SAS 1078 for SAS/SATA-HDs
RAID levels 0, 1, 10, 5, 50, 6 and 60 are supported
These RAID controllers support via an expander on the **Conversion Option to 2.5" HD Basic Unit** 12 HDDs on the internal 12 SAS ports.
Tapes and optical devices (e.g. DVD) are not supported.
Also there is no support of any external storage by this RAID solution.
A second controller is necessary if the 8x 2.5" HD Extension Box is configured





Section N-VIII 2.5" SAS / SATA Hard disk drives



O

Section IX External SAS Disk Array, SAS backup drives or SCSI peripheral devices

SAS RAID controller for JBOD subsystems

1x

S26361-F3890-E1
8 port SAS RAID Controller
LSI
MegaRAID SAS880E
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6 & 60
without iBBU
SAS 3Gb/sec
8 port external
PCIe x4, 167mm
full height bracket
max. 1x per system

S26361-F3890-E30
8 port SAS RAID Controller
LSI
MegaRAID SAS880E
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6 & 60
with iBBU
SAS 3Gb/sec
8 port external
PCIe x4, 167mm
full height bracket
max. 1x per system

iBBU max. 2x per system possible	
for loose delivery please order	
S26361-F3890-L501	Contr. w/o BBU
S26361-F3890-L13	optional BBU

SAS-controller for external backup drives

2x

S26361-F3271-E1
SAS Controller 3Gb/s 8 port LP
LSI SAS3442E-R Low Profile
PCIe x4,
int: 4 port
ext: 4 port
max. 2x per system

SCSI-controller for external drives and peripheral devices

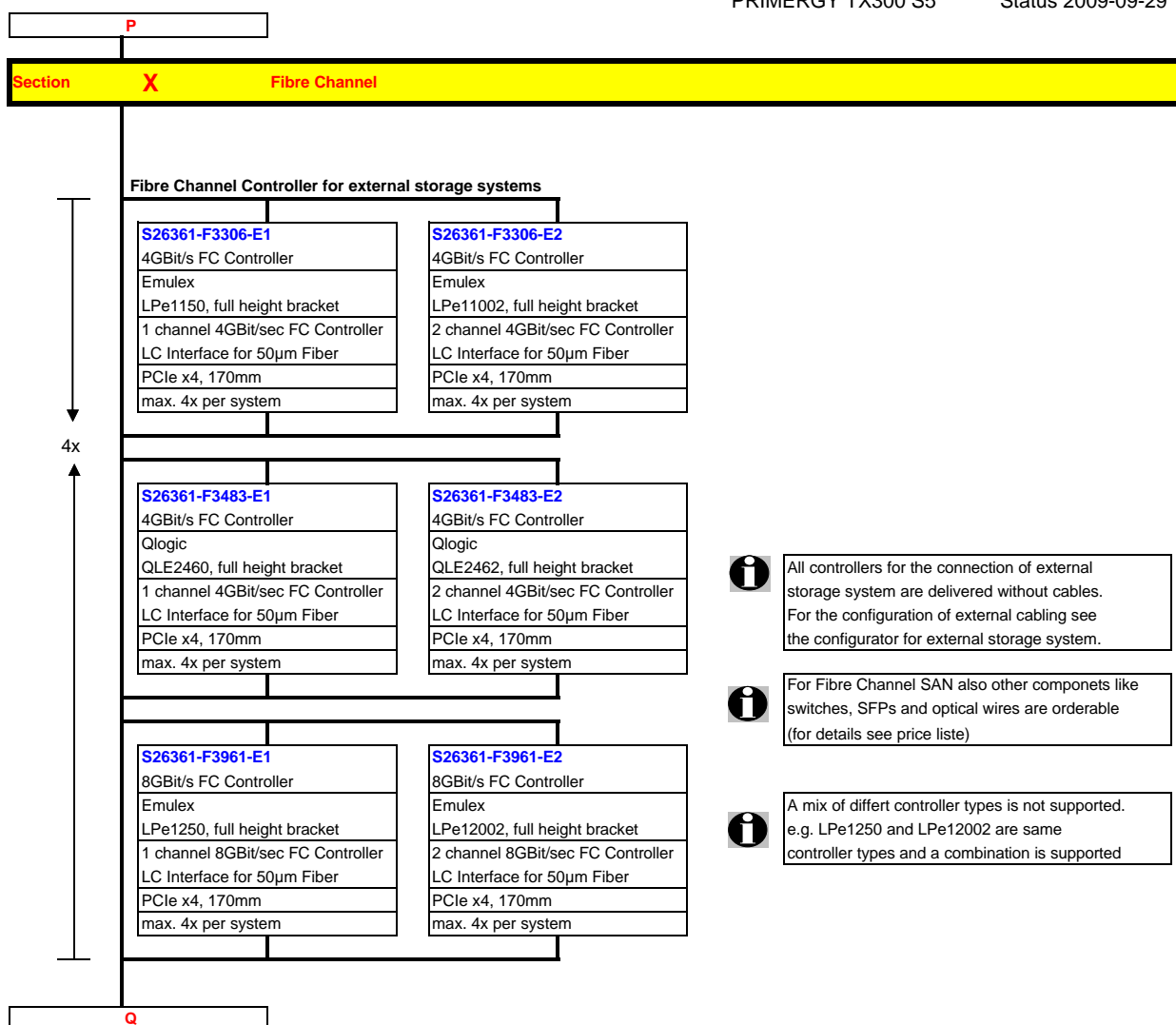
2x

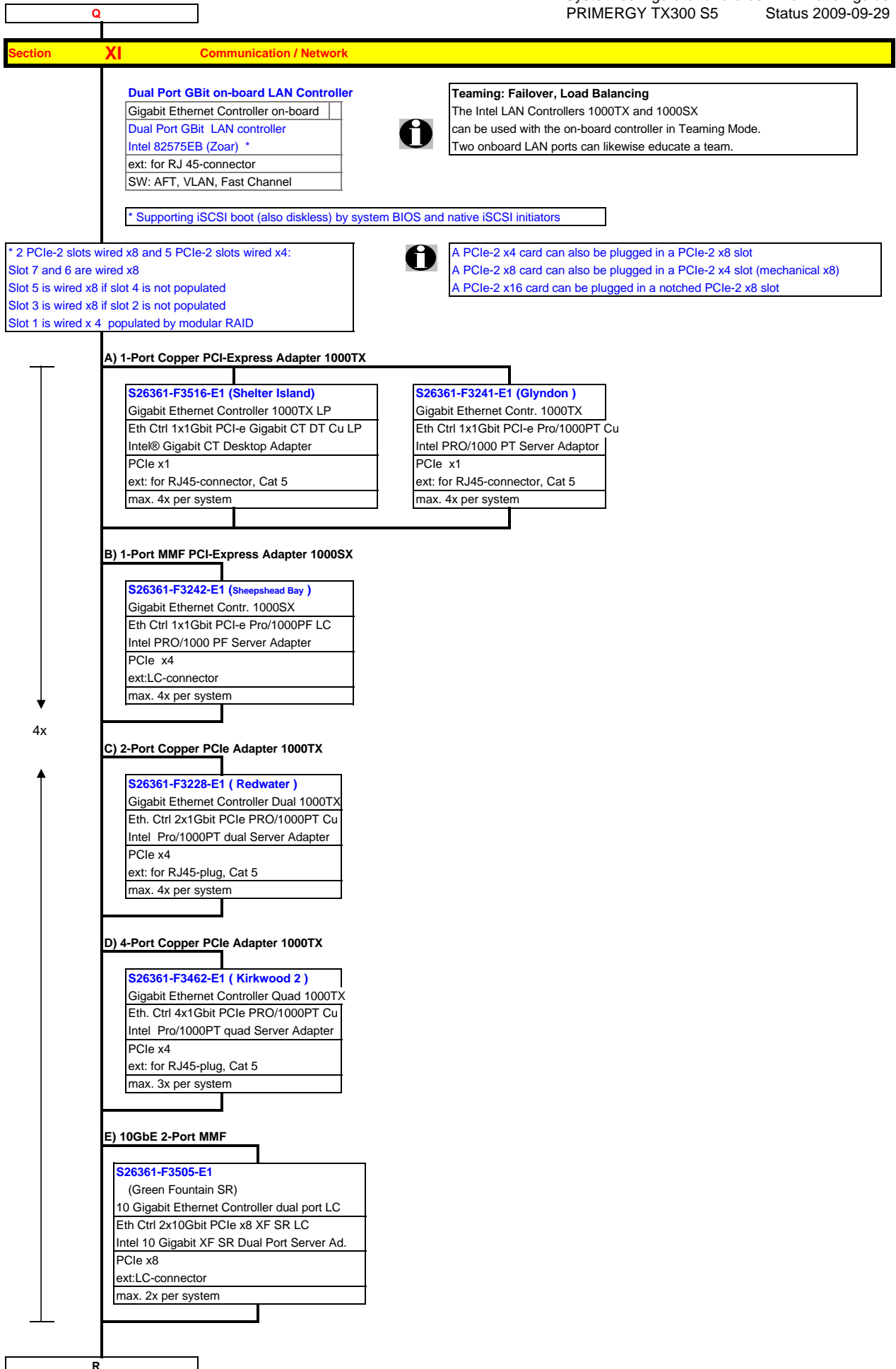
S26361-F3270-E1
SCSI U320 Controller
Adaptec SCSI Card 29320LPE
PCIe x1,
int: LVD HD68
ext: VHDCI 68pin
max. 2x per system



Only released for SX10. All contr. for the connection of external storage systems are delivered without cables. For the configuration of external cabling see configurator

P





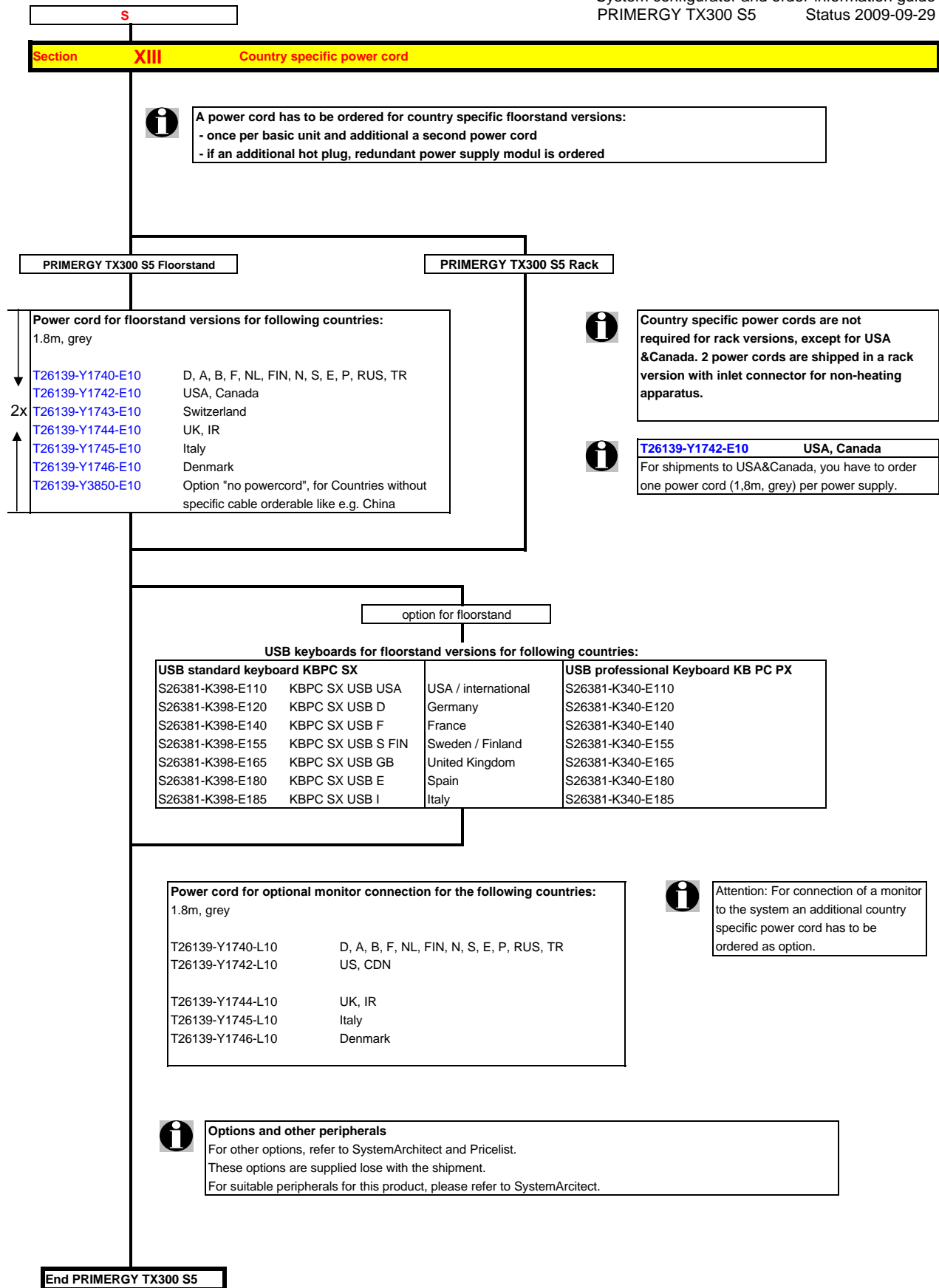
R

Section XII System Management Products (RemoteView)

S26361-F1790-E241
iRMC S2 advanced pack
 integrated remote management controller
 activation key for
 graphical console redirection
 and remote media redirection
 max. 1x per system

iRMC S2 (integrated Remote Management Controller) onboard server management controller with dedicated 10/100 Service LAN-port and integrated graphics controller. The Service LAN-port can be switched alternatively on standard Gbit LAN port

S


End PRIMERGY TX300 S5

Change Report

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